

WHAT IS CLAIMED IS:

1. A light control type LED lighting equipment comprising:
 - a LED aggregate lamp portion, in which a first color LED group, a second color LED group and a third color LED group are included;
 - an alternating current power connecting portion for being connected to a power source;
 - a power source converting portion for rectifying an alternating current power received through said alternating current power connecting portion;
 - a first color drive circuit, a second color drive circuit and a third color drive circuit for supplying power for respective of the first color LED group, the second color LED group and the third color LED group by an output of said power source converting portion so as to illuminate the LED groups;
 - control input generating means for generating one series of control input signal, a value of said control input signal increasing or decreasing within a predetermined range in response to operation by a user;
 - control output generating means for generating a combination of first color luminance data, a second color luminance data and a third color luminance data corresponding to a value of said control input signal according to a predetermined characteristics; and
 - individual power control means for independently

controlling said first color drive circuit, said second color drive circuit and said third color drive circuit on the basis of said first color luminance data, said second color luminance data and said third color luminance data for varying power supply
5 amount for said first LED group, said second LED group and said third LED group,

a color tone of said LED aggregate lamp portion being varied continuously depending on the value of said control input signal according to a predetermined primary curve set in a
10 chromaticity coordinate.

2. A light control type LED lighting equipment as set forth in claim 1, further comprising:

second control input generating means for generating one
15 series of second control signal, a value of said second signal increasing or decreasing within a predetermined range by operation of the user;

common power control means for uniformly varying power supply amount for said first color LED group, said second color
20 LED group and said third color LED group by uniformly increasing or decreasing amount of current value of said first color drive circuit, said second color drive circuit and said third color drive circuit depending upon a value of said second control input signal,

25 said hue of said LED aggregate lamp substantially

maintained while brightness of the lighting is varied.

3. A light control type lighting equipment as set forth in
claim 2, wherein said first color drive circuit, said second
5 color drive circuit and said third color drive circuit are
constant current type, and said individual power control means
individually varies power supply amount for said first color
LED group, said second color LED group and said third color
LED group by a pulse width modulation method.

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4. A light control type LED lighting equipment as set forth
in claim 1, further comprising:

15 second control input generating means for generating one
series of second control signal, a value of said second control
signal increasing or decreasing within a predetermined range
by operation of the user;

20 common power control means for uniformly varying power
supply amount for said first color LED group, said second color
LED group and said third color LED group by varying output from
said power source converting portion depending upon a value
of said second control input signal,

said hue of said LED aggregate lamp substantially
maintained while brightness of the lighting is varied.

25 5. A light control type LED lighting equipment as set forth

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in claim 1, wherein said LED aggregate lamp portion, said alternating current power connecting portion, said power source converting portion, said first color drive circuit, said second color drive circuit, said third color drive circuit, said control 5 output generating means including a control signal receiving portion and said individual power control means are mounted on the lighting equipment main body, said control input generating means including a control signal transmitting portion is mounted on a remote controller separated from said 10 main body, said control signal transmitting portion being connected to said control signal receiving portion through a ratio transmission line.

6. A light control type LED lighting equipment comprising:
15 a LED aggregate lamp portion, in which a first color LED group, a second color LED group and a third color LED group are included;

20 a first color drive circuit, a second color drive circuit and a third color drive circuit for supplying power for respective of the first color LED group, the second color LED group and the third color LED group so as to illuminating the LED groups;
25 control input generating means for generating one series of control input signal, a value of said control input signal increasing or decreasing within a predetermined range in response to operation by a user;

control output generating means for generating a combination of first color luminance data, a second color luminance data and a third color luminance data corresponding to a value of said control input signal according to a 5 predetermined primary curve set in a chromaticity coordinate; and

individual power control means for independently controlling said first color drive circuit, said second color drive circuit and said third color drive circuit on the basis 10 of said first color luminance data, said second color luminance data and said third color luminance data for varying power supply amount for said first LED group, said second LED group and said third LED group,

wherein a color tone of said LED aggregate lamp portion 15 being varied continuously depending on the value of said control input signal.

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